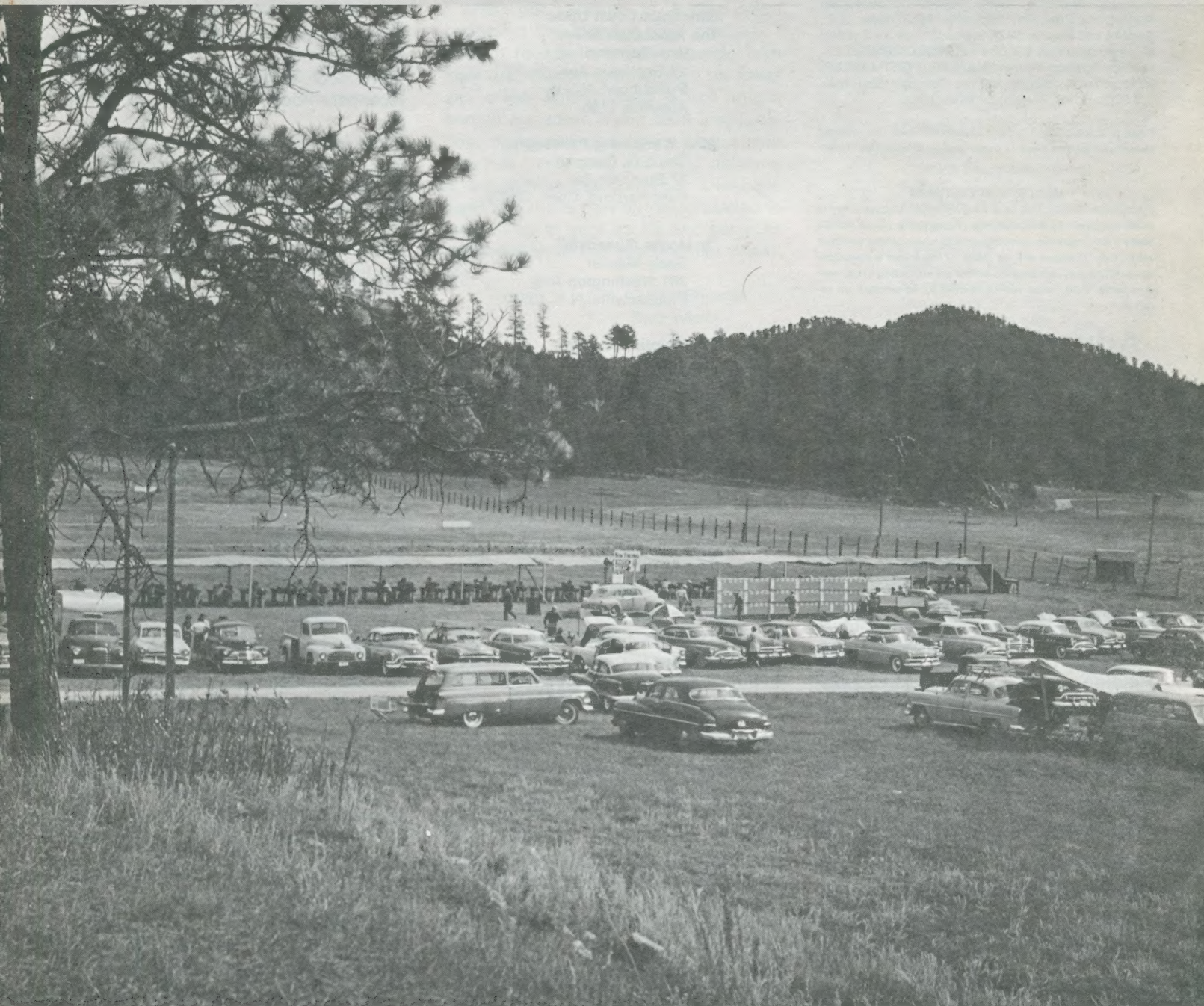


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Precision

SHOOTING

a magazine for shooters by shooters



PRECISION SHOOTING

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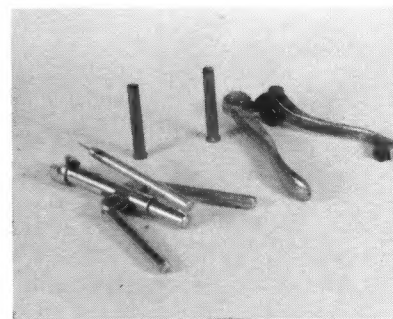
Last call on Benchrest School '81 — Sign up now. See ad on back page for address.

Cover Picture

First Shoulder to Shoulder National Championship, Custer, S.D. — 1954.

WHAT ARE THEY?

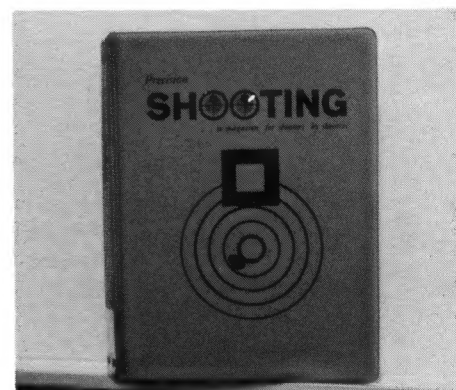
No. 2



These are Pope tools and 25-21 cases. The early attempt to develop the 25 caliber as a target round in late 1800's. It did not succeed.

The tool on left is a Pope de and recapper. Poole tools were copies of this.

The tool on right was used for priming only, and was a remade commercial gadget — made originally, I believe, to load 410 shotgun shells.



PRECISION SHOOTING BINDER

Precision Shooting Magazine has the perfect answer for the problem of storing the back issues that you are saving so carefully.

A Precision Shooting binder will hold a complete year of either the old size (pre March 1973) or the new size magazine. This binder, with an attractive small group printed on the cover, is available for your use. The vinyl binder is shipped in a cardboard cover and is complete with wires to hold the issues in place. **Now available in red and green.**

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President's Message

Since there is no one matter of such significance that it would fill my column for this month, I shall instead mimic one of our writers, Dave Brennen to be specific, and present a sort of hodgepodge of relevant items which concern the benchrester.

I have been advised that occasional new members who pay their dues at a match are experiencing some difficulty in proving their membership at the next match they attend. It seems that due to the time it takes our secretary to process a new membership a paid up shooter may not receive his membership card in time to show it at the next match. I am recommending that the club official who handles registration provide a receipt for payment of dues at their match. This should serve as proof of membership until that person's official card is received in the mail.

The response to the questions I raised in the May issue regarding the two 10-1/2 pound rifles and our relationship with NBRSA has been rather good. I appreciate hearing from those of you who shared your thoughts on these matters with me. I would like to remind all of you that we have a committee working on the 10-1/2 pound rifle situation. The mem-

bers of this committee are Gary O'cock, Brian Rubright, Jim Borden and Tony Margelowicz. These men have indicated to me that a printed questionnaire would probably be the most effective tool for polling the membership. It seems that one might be forth coming so keep an eye out for it and then let your preferences be known.

It is not too early to be thinking about the agenda for this years ANNUAL MEETING. While attending matches throughout the season, shooters often approach me with ideas, suggestions, questions or comments regarding the direction IBS should be headed in. While I often get involved in a discussion regarding the topic of their concern, I seldom receive a written agenda item from that shooter even though his ideas are often sound ones which might benefit our sport. If you have a suggestion, pet peeve or brilliant idea whose time has come, send it to me or deliver it at a match so that I can get it into the agenda. This is how our organization is most likely to cure its ills and serve its membership in the best manner possible.

Good Shootin'
Bob White

FROM DESK OF EDITOR

I hope all the club members and especially match managers noticed the Mainville ad for their shoots. All the clubs would find it advantageous to take a similar course. It's a lot easier and less work than putting out a mailing to competitors, it gets to a lot more shooters. And, it's less costly, mailing and printing being what it is. We will print your results in full too for a slight charge, and the clubs would save money and work here as well. This is important — saves money for clubs and helps P.S. as well — everyone benefits! More profit for clubs, a happy match manager with his work load lessened, and you hit more people — think about it!

And speaking of thinking — did anyone stop to think that if handguns were not available — the potential assassins of the President and the Pope would probably have used sawed-off rifles or shotguns and both of these great men would be dead!

We are getting a good back log of excellent articles — I'd like to use them and will in time — in the meantime, space prevents inserting all of them.

Gradually we are establishing a good, working staff with a variety of interests and skills. One of these days we'll get on an even keel financially and break the 20 page barrier.

We had a meeting in Vermont of the Corporation Directors and Representatives of NBRSA — with a fine result — IBS and NBRSA will use P.S. together, and who knows what the next step in getting the two great organizations together will be — common records or rules or what? The important thing is we've taken that big first step.

The reprint on turning case necks is included following several requests.

This doesn't necessarily mean that there is hope for all of us, but I've just heard that L.E. "Sam" Wilson, 86 years young, has just set a new World's Record. Sam at Issaquah, Washington range, shot five five-shot groups at 100 yards that was calibrated by the official scorer at .1644". I believe the old record was .185". So, Sam really broke it. He was using a 20 year old Clyde Hart barrel. So, like Sam, the barrel had a little life in it.



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IBS Memo

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100 or 200 yard benchrest targets are \$24.30 per 500. 300 yard benchrest targets are \$24.30 per 500. 100 yard hunter targets are \$14.85 per 250. 200 yard hunter targets are \$16.95 per 250.

All target orders, as usual, are figured with a 10% discount for affiliated clubs, plus handling and shipping charges.

Mail order to: Evelyn Richards, 411 N. Wilbur Ave., Sayre, Pa. 18840.

The annual membership fee is \$15.00 — Life membership in IBS has been set at \$125. Apply to the recording secretary for enrollment. IBS Affiliated Club Membership \$15.00

New rule books now available, with minor changes — plus IBS By-Laws at \$1.00 per copy.

IBS Charter Membership Patches and regular patches are available at \$2.00 each.

When ordering **Charter Membership patches**, please indicate your 1970 Card Number.

Metal Fouling

Doc Garcelon:

By now you must have the hunk of steel we hardened and returned to you. Let me suggest a handy weight for this barrel turning business might be one of those rabbit ear rests for a rifle. About the right weight, compact and easy to fasten to the plate.

By now I have the April issue of PRECISION SHOOTING and note the cover. If it will do the boys any good that's O.K. with me.

Main purpose of this letter is to comment on Lt. Col. Hornbeck's page on metal fouling. Happens metal fouling is something I have had quite a bit of experience with. When in the Army in 1917 as Chief Mechanic of a battery of field guns we were issued something like 100 M-03 rifles. We had target practice at Ft. Sill, Oklahoma, and I had to dope out the barrels which picked up considerable fouling from those old 150-gr. cupro nickel bullets which were used at the time. They were much worse than the later gilding metal variety which were developed after World War 1 ended.

We used a metal fouling solution issued us in gallon jugs and the formula for same is enclosed. It was very effective and all the fouling could be removed in less than an hour. This formula is just as effective today as it was then. It is found in the SMALL ARMS FIRING MANUAL, a Government Printing Office book, published in 1913. I have a copy I have had since my Army Service and have mixed up and used this solution many times since, including 1981.

Two of the ingredients are not obtainable everywhere. Few if any drug stores have ammonia persulphate but it can be obtained by going higher up. Likewise ammonia carbonate although many drug stores may have this. Lately I have had to go to Seattle to obtain stronger ammonia 28%. Seems to be some regulation, at least in my state, against drug stores stocking this.

This solution will have no appreciable affect on steel when not exposed to the air, but if allowed to evaporate on steel it will attack it rapidly. Care should be taken that none spills on the mechanism and that the barrel is washed out promptly with soda solution.

In the Army we were issued a rubber cork for the chamber and a short section of rubber hose for the muzzle. The rifles being all alike this was simple. For the average shooter a plain cork in the chamber is O.K. For the muzzle I use electrician's tape, wrapped half on the

barrel and the other half above the barrel. I put the barrel in a vise, muzzle up, and bring a strong light above and close to the muzzle so I can watch what happens when the solution is poured in. As soon as the barrel is filled, if there is any copper fouling, bubbles will start coming up and it will keep bubbling as long as any metal is being dissolved.

With this solution you can drop a 22 bullet in a couple ounces of it and the jacket will be completely eaten away in a couple days or so. You will have a very blue solution, like ink, as a result.

I use this solution every now and then. Had a barrel a few years ago that shot like poison for the first five shots. A 30 caliber barrel that picked up fouling which would be removed after setting over night with Hoppe's in the bore. First five shots — beautiful. Next ten, not so good. Next ten — horrible.

On the other hand, I have a 30 cut barrel, not button rifled, that will accept a hundred shots with Sierra bullets and will barely bubble when the solution is poured in.

All barrels, from my experience, will pick up some metal, proven by the small bubbles coming up in the solution, but many of these can be shot all summer without any apparent falling off in accuracy. It is wise, however, to "dope" them out before a shooting campaign. I do this just to be on the safe side.

Friend Hornbeck's column is always good and the data on metal fouling is timely, as anything is timely if it is always with us. Shooters would be wise to watch this fouling closely. This copper deposit can often be seen if a barrel is examined in strong sunlight, as far as sunlight can reach the barrel. The fouling left by gilding metal jackets can seldom be seen by looking through the breech end but if a barrel is picking it up near the muzzle it can be seen.

In 1917 the fouling left by those old cupro-nickel bullets was in lumps, you might call 'em, and not only could be seen by looking through the barrel but could be felt when you pushed a patch through it.

If you want to use this material in Precision Shooting, go ahead and I want nothing for it. I am preparing an article for PS which I will submit as soon as I get some photos ready. Should be within two weeks and I think BR shooters will be interested. There will be no charge.

Sincerely,
L. E. (Sam) Wilson

From
SMALL ARMS FIRING MANUAL,
1913, revised to 1917.

STANDARD METAL FOULING SOLUTION

Ammonium carbonate, 200 grains, or one heaping spoonful. Ammonium persulphate, 1 ounce, or two medium heaping spoonfuls. Ammonia, 28%, 6 ounces, or 3/8-pint or 12 spoonfuls. Water, four ounces, or 1/4-pint or 8 spoonfuls.

Powder the persulphate and carbonate together, dissolve in the water and add the ammonia. Mix thoroughly and allow to stand for one hour before using. It should be kept in a strong bottle and tightly corked. It also should be kept in a cool place. The solution, when mixed, should be used within 30 days.

Push a cork in the rifle chamber, wrap friction tape around the muzzle so the solution can completely cover the muzzle. Stand the rifle on end and pour full, with the muzzle submerged in the solution. Leave the rifle set for about 1/1 to 3/4 hour. Pour the solution into a saucer so you can check the color. Wherever copper has dissolved the solution will turn blue. If none of the solution comes out blue, there was no metal fouling.

It is important that the cork in the chamber be tight. If not the solution will settle and should be kept above the muzzle.

Dear Doc,

I heard a rumor in early February that indicated Nitrobenzene was no longer a part of the formulation of Hoppe's No. 9. I thought the readers of PS might be interested in the results of the facts that I have learned about the rumor.

I called Penquin Industries in February and was told by a salesperson that no changes had been made to Hoppe's No. 9. Therefore I dismissed the rumor as unfounded. A few weeks later Tony Margelewicz told me that he had seen a number of bottles on store shelves that did not have Nitrobenzene listed as a content on the label of the bottle. As time went on I also began noticing bottles of Hoppe's No. 9 without the Nitrobenzene listed on the label. A follow-up letter to Penquin Industries brought no response by April 3, so I called them once again. I talked to a receptionist and a salesperson who could not or would not answer my ques-

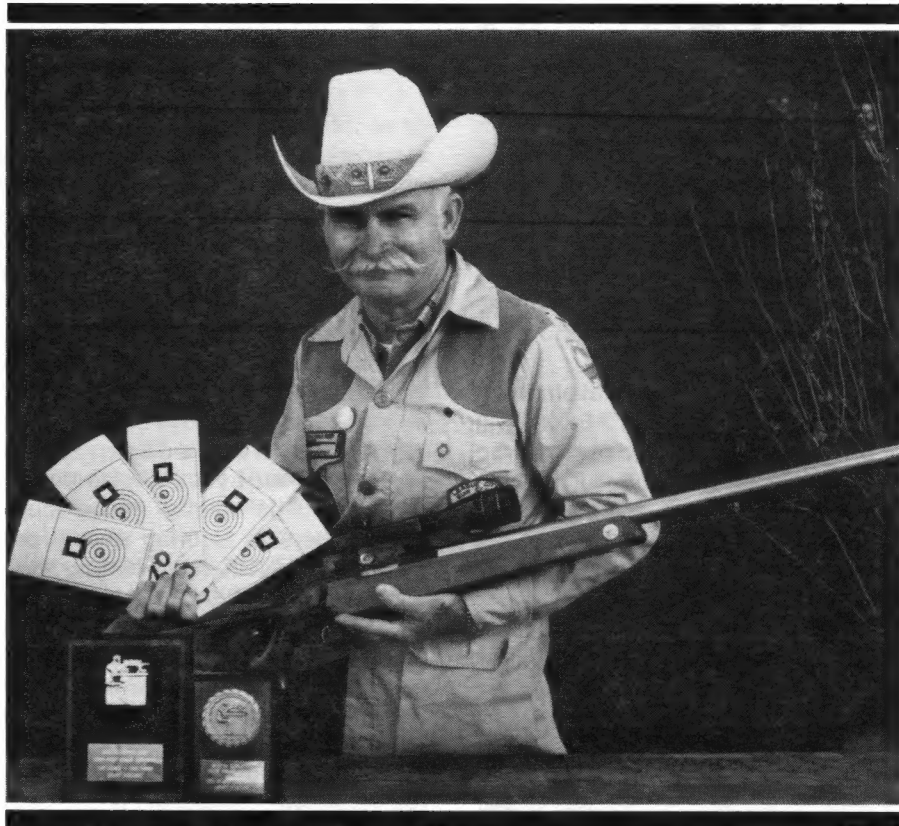
tions. I was then connected with the Technical Manager. He informed me that the Nitrobenzene had been removed from the Hoppe's No. 9 for the Canadian market about 8 years ago and he said that no problems had been experienced. He also said that Hoppe's No. 9 in production for the U.S. no longer contains Nitrobenzene. He indicated that 8 years of testing had proved that the removal of Nitrobenzene from the product has no impact on the effectiveness of removing copper fouling from gun bores.

I did some follow-up searching on the corrosion of copper and copper alloys. I found as I had suspected that ammonia is a corrosive agent when brought into contact with copper. The other thing I found was that Nitrogen dioxide (No₂) causes the acceleration of copper corrosion when ammonia is present. A coating of Nitrogen dioxide on the copper causes stress-corrosion cracking. The cracking allows the ammonia to contact more granular structures of the copper and the corrosion progresses. Nitrobenzene is merely a benzene chain with a Nitrogen dioxide attachment. I would assume that the inclusion of Nitrobenzene in the original formulation of Hoppe's No. 9 was to achieve this result. I personally have difficulty understanding why the removal of Nitrobenzene from Hoppe's No. 9 will not impact on the effectiveness of the product. I can understand that Hoppe's when used between matches at a shoot should be just as effective since little time is available for the stress corrosion cracking to take place. Where I think it will impact is during wet layup. That is, the swabbing of the bore before putting the gun away for a few days. That is the time when we expect the Hoppe's to work on the last traces of the copper fouling in our barrels.

I intend to run some informal tests of my own to determine if any difference in the performance of Hoppe's with and without Nitrobenzene. I will weigh them over time and determine if unequal weight losses can be detected. In the meantime maybe some of the Chemists or Chemical Engineers in our group can shed some more light on the subject.

Jim Borden

Last call on Benchrest School '81 — Sign up now. See ad on back page for address.



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As many competitive bench rest shooters do, Henry Christman of Pearland, Texas, started making his own bullets back in 1975, even though Nosler Solid Base match grade bullets were winning him some local matches. For five years he competed with his own as well as those made by the best custom bullet makers.

In mid-1980, Henry decided to give the 52 grain Solid Base bullets another try. Shooting the Noslers in a registered match at Austin, Texas, he placed second at 100 yards, first at 200 yards and took the Grand. Then came the Gulf Coast Regionals, again sponsored by the National Bench Rest Shooters Association, and Henry's .222 magnum Heavy Varmint rifle served him well.

He shot five groups... .229,

.234, .126, .165 and .238... for an aggregate score of .1984 to win the Heavy Varmint 100-yard competition... again with the same lot of Nosler Solid Base bullets. "Neither my own nor those of the best custom bullet makers shoot and/or compare with that lot of Noslers," he wrote. "I think I'll save the rest of them for the Varmint Nationals."

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RE: May Issue

Dear Doc,

Just received the May issue as I write this, and thought that my comments in letter form would take the place of an article. The issue had a lot of thought-provoking stuff in it, and my comments might go the same length as an article anyway.

I notice your offer, in several places in this and preceding issues "Editor will buy drinks and dinner for person who gets largest number of **P.S.** subscribers by Nationals." Fine idea, and a generous offer on your part. I've been trying to get together a little bit of a plot where a whole bunch of us sign up say a couple of new subscribers apiece — no more and no less than two. For instance, your wife and daughter, your wife and your mistress, any two names will do. A **P.S.** subscription costs \$9.00 apiece, so we're talking about an outlay of \$18.00 here. The crux of the whole plan is that you can't have some idiot who didn't get the message bring in three subscribers, or the whole brilliant plan goes down the tube. We would have to find some way to get the word out that if anyone goofed us up by bringing in more than two subscriptions, he would be taken out behind the scoring shed and beat bowlegged with a rubber hose. But if I

were able to carry off this master plot, there would be about fifty of us, all with two new members, and since there was a tie, you certainly would have to do The Decent Thing, and invite all of us for "dinner and drinks." With a little bit of serious drinking, should be no problem to run up a bill over \$18.00 apiece, so we come out ahead. If I were you, and in mid-July I saw fifty guys tied for the lead with two new subscriptions apiece . . . wuz I you, I'd plan on being too sick to be able to attend the Nationals. Be sure to bring several credit cards to the Nationals with you, just in case I carry off this master plot.

Let's see, on to page No. 3. Got a charge out of the way you remarked that you were desperate for a cover photo, and used Ed Joiner's picture. After that bit of phraseology, I believe I can get Ed to help out with my master plot (see details above). I suppose Ed should look at the bright side of things however . . . you could have had a leaking roof at the office . . . in which case the word-age would have been "Really desperate for something to nail over the leak, so used only thing on hand — a picture of Ed Joiner." Ed, when you go to the Nationals, don't eat or drink for a couple of days . . . I want you really hungry

and thirsty when fifty of us sit down as Doc's dinner guests . . . we'll see you get back at him for this yet!

On to page No. 4. I thought Bob White had a couple of very logical questions that he put to the members, and I hope that he gets some input in response. Since I'm too lazy to write a separate letter to Bob, I'll do this right here . . .

Bob's first question was what to do with the light varmint/sporter situation that we have at hand: He offers three possibilities . . . 1. reduce maximum weight for sporter to something below 9 pounds, 2. restrict light varmint to .22 caliber rifles, or 3. combine sporter and light varmint into one 10-1/2 pound class.

Bob, put me down for No. 3 of the above, on a most definitive basis. Heck, we've got a lot of fellows firing the same rifle in all three classes now, and just about everyone and his brother shoots the same rifle in both sporter and light varmint, so all we do is have instant replay. I see two benefits coming out of this: 1. we'll reduce the time and work of the Nationals by a third, 2. we'll be able to promote the heavy gun, the unlimited class more. If we can get this class moving, it will benefit bench rest shooting more than our present instant-replay in the two ten and a half pound classes. It's getting hard to get clubs to handle the Nationals . . . it's a darn lot of work. If we do away with a third of the work, the task won't be so formidable, and hopefully more clubs will entertain the possibility of hosting the Nationals without feeling that their club has to ask for volunteers for just about the better part of a full week.

Then I got a charge out of the phraseology of Bob's second question, "What do you feel the IBS posture should be toward the NBRSA?" A perfectly valid and intelligent inquiry, and maybe I'm just in a mood to see the funny side of things tonight, but I can imagine that question asked — in that brief form — of either of the two organizations about ten years ago. Most of the answers would have dealt with mass extermination, mayhem, and sudden death in general. But now, by and large, tranquility and a spirit of cooperation toward a common goal are the order of the day — thank heavens. Bob offers three possibilities: 1. make no overtures toward reunification and continue with the two organization system, 2. seek ways of participating jointly in certain bench rest ventures in an effort to improve relations, 3. actively promote reunification by negotiating with NBRSA for the eventual return to a single bench

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rest organization acceptable to both current organizations.

This time I'll put my two bucks on the number two horse. I would draw a parallel with your high school days, and one day an extremely attractive young lady who had just moved into your town joined the class. If you found yourself rather interested in the young lady, should you: 1. ignore her, 2. treat her like a normal human being, be sort of nice to her, and see what happens, or 3. put a real rush on her. Answer No. 2 makes the most sense here also. Hells bells, go back to **Precision Shooting** in the days before the NBRSA-IBS split. There were some darn contentious matters even then. For instance, the subject of sand-bag rests versus mechanical rests in the heavy bench class certainly raised a few blood pressures in the old days. I was one of those who really pushed for the idea of the NBRSA coming back to **Precision Shooting**. I thought it was a good idea then, and I still think so. But I also recognize that we're going to have a few squabbles along the way. Over what, I don't know; but they're gonna happen; it's inevitable. I vote for Bob's number two choice, and feel the way he stated — number two could not be improved on for wordage.

On to page No. 5, the IBS annual meeting. I choose to skip over this complicated matter, except for one thing . . . the quotation, "Recording Secretary Evelyn Richards reported there were 1,036 members including 171 new members . . . and a loss of 287 members for the year." I don't know how that struck anyone else, but it strikes me as something we ought to maybe re-read. I'm no mathematics major, but any kid who grew up on the wrong side of the railroad tracks, and who can keep up on the odds in a fast crap game would raise his eyebrows at that little paragraph. There is a line in the hauntingly beautiful Tolkien Trilogy when the beautiful queen Galadriel sadly says, "I shall diminish, and go into the West . . .". I don't know about the West thing, but we sure as hell are diminishing, and it's high time that we stopped that movement.

Page No. 6 has a fine article by Seely Masker about barrel fitting. I didn't understand a word of it, but I even re-read it. Seely's guns really shoot, and if you want to see a fine example of an eternal enigma some day, watch him when he's just finished second at some match, beaten by a rifle that he put together for a customer. Should he be disappointed at finishing second, or proud of having one of his guns win all

the marbles? A delicate philosophical question, obviously, and in about ten years, Seely will probably have reached a decision on the question.

Enjoyed Mike Walker's column, as always. The fact that the guy has forgotten more about bench rest shooting than most six average shooters know puts me in a little in awe of the fellow. He had two darn good letters to work with this month, one from Greg George and one from Colonel Fackler, both of which show unmistakable signs of having a good brain between their right ear and their left ear. Liked Fackler's comments on wanting a .22 caliber bullet weighing 100 grains, having the shape of the Hornady 162 grain 7MM match hollow point boat tail. Ah yes . . . pick up Parker Ackley's **Handbook for Shooters and Reloaders**, page 291. Some of our older readers (don't get offended, I'm only 43 years old, and I meet that description, despite the fact that I'm often mistaken for Robert Redford — ahem) will recall two cartridges . . . one was the .228 Ackley Magnum. Case was made by necking down and shortening the .30-06 brass, and using the 70 and 75 grain .228 caliber bullets originally intended for the .22 Savage High-Power cartridge.

The second was the .226 Barnes QT (Quick Twist), which was based on the .257 Ackey improved case, necked down to accept the Barnes 125 grain .226 diameter bullet, and fired in a 5-1/2 inch twist barrel. Remember that one, Mabel? Unless my memory is completely wrong, there was an article on the Barnes QT cartridges in the **American Rifleman** somewhere in the 1950 era, and if I get ambitious enough, I'll try to dig it up. They were both early attempts to use a bullet of imposing sectional density for long range varmint shooting. I can recall being impressed by them, and trying to interest Ted Boughton in the idea for a 200 yard bench rest cartridge (we didn't have 300 meters as an excuse to try something new in those days). Ted, never one to beat around the bush, simply said, "nope," and that was that. I then retreated to the 139 grain 6.5MM match bullet, and used to pester Harvey Donaldson on that idea. I've got several letters from both Harvey and Ted dating back to the 1970-1971 era, and they are worth a separate article. I know what this fellow Martin Fackler is thinking, and it makes a lot of sense in many ways, but bullets will be the big problem in the final analysis. Research on the early Barnes QT line, mainly in Parker Ackley's early writings will be of value. There was also a 6.5 Barnes QT, but that used a shortened belted magnum case,

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The nice part about all this is that it seems as if some people are starting to THINK and SCHEME again. That practice has been dormant for a while. In the old days, everyone was working on A GREAT IDEA which was going to put them miles ahead of their competitors. Mike Walker usually got a half dozen letters a month that would start off, "What if I . . ." and while some of them were pretty far out, at least people were thinking back then. When people stopped wild-catting, we all became conformists . . . and boring. I think it would be great to once again have technical arguments roaring, people brawling in the gutters over four degrees of shoulder angle, etc. It would certainly keep us so busy that we wouldn't have time for bigger and more profound arguments of the kind that cause trouble for the sport.

On the same page is a letter from Mr. D. E. Miller, the manufacturer of the Miller-DeHaas action. He talks about the idea of using his action in a serious bench gun. A laudable objective, and indeed one worthy of inclusion in the pages of a magazine named **Precision Shooting**. On one hand, let's not lose track of the logic that if he carries it off, and develops a rifle capable of out shooting our bolt actions, he will overnight make obsolete some ten thousand bench rest rifles. On the other hand, the need for ten thousand new rifles on the new system would certainly spur the bench rest economy, if not the national economy. Maybe we should relax, and we'll cross that bridge when we come to it.

Later in the magazine, Charlie Fountaine talks about Benchrest School '81, and he seems to be doing a real good job of kicking a tough task into a semblance of order. Let us not overlook the fact that Charlie asked for a helping hand on this project. In his best selling book on "Hell's Angels" by Hunter Thompson, in a philosophical frame of mind, Thompson remarked that the basic idea behind the formation of communism was the theory "from each according to his abilities; to each according to his needs." How is this germane to Benchrest '81? Well, if you only take from a sport, and never contribute, you are lessening both the sport, and yourself as an individual. The sport of bench rest shooting has fallen on hard times, and while there are two sides to every argument, if you disagree, I have to feel that your head is in the sand. Look around you, man . . . **Precision Shooting** several thousand dollars in the red, the NBRSA shooters losing **The Rifle** connection, dwindling IBS membership, last year folks were startled how **FEW** showed up for the IBS varmint nationals. Hells bells, back in 1970 or so, the problem was we were getting too many at the nationals, not too few. **Precision Shooting** is the last bastion to retreat to, when that's gone, then our sport has entered its final phase, and time for the fates to quietly say, "Gentlemen, it is closing time . . .". Why support the school? How about three quick reasons: 1. It's sponsored by **Precision Shooting**, and we need any darn nominal income that we can get; 2. We need new blood in our sport, and this offers a chance to bring in new shooters; and

3. It offers to many a chance to do something for someone besides themselves.

As I read this, the School will go for three days. If you can spare one, two, or three days, call Charlie Fountaine (his phone number is on page 3) and say, "Charlie, I may not be the greatest shooter in the world, but if you could use a sex symbol for a day or so, I think I could show up a bit early for the Nationals." I again comment that if we don't save ourselves, well we don't appear to be eligible for any federal grants that I know of.

Page eighteen has some darn good match reporting by that same Charlie Fountaine, on the winter matches at Dunham's Bay. That's the way a match should be reported, as if the participants were real, and flesh and blood, capable of shooting great, or shooting lousy, but real people, rather than a great assembly of statistics, and not much else. Charlie can make you chuckle, even at yourself and he makes you want to go to the darn stupid matches, and freeze your posterior off . . . which is a relatively minor price to pay for a good time, with good people.

In closing, I'll go back to page two, where Doc Garcelon was sort of in a funk over losing a longtime friend of many years standing — a Pointer named Robie — to cancer on March 16 of this year. Same thing happened to me last summer, and I know the feeling. There is a quotation that I feel to be so great that I carry a copy of it in my wallet. It's not exactly correct for the death of a dog, but the sentiment is as close as I have come to finding the correct words. It's from William Beebe, the first curator of birds at the Bronx Zoo who is talking about endangered species . . . "When the last individual of a race of living things breathes no more, another heaven and another earth must pass before such a one can be again." Sorry, Doc.

Best regards,

Dave Brennan



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Lathe Turning of Case Necks

By M. H. WALKER
Benchrest Technical Editor

Apparently some shooters missed Dr. Garcelon's description of lathe method of turning case necks, so we will do a new description with picture and a little more flap.

First, chuck up a piece of sturdy round in the head stock preferably 1/2" to 3/4". This size is preferred to smaller stock for its lack of flexibility. Let's say you are turning .222 cases. With a lathe tool, ground neatly with a small radius on the tip suitable for a good finish on the brass, turn a portion of the piece in the head stock long enough to accept the length of the neck plus a place for the tool ahead of the case neck. For the .222 this is usually between 3/8" and 7/16". Radius the end and finish by polishing with at least 320 emery to a diameter to accept the case neck with a force fit. Using unfired new cases this diameter can be .224".

Better results will be obtained by turning fired cases. The new cases are not exactly straight. Any run out at the base tends to make the turning job less uniform. With fired cases from a tight neck chamber, the pilot diameter is about .226, with standard chambers about .228".

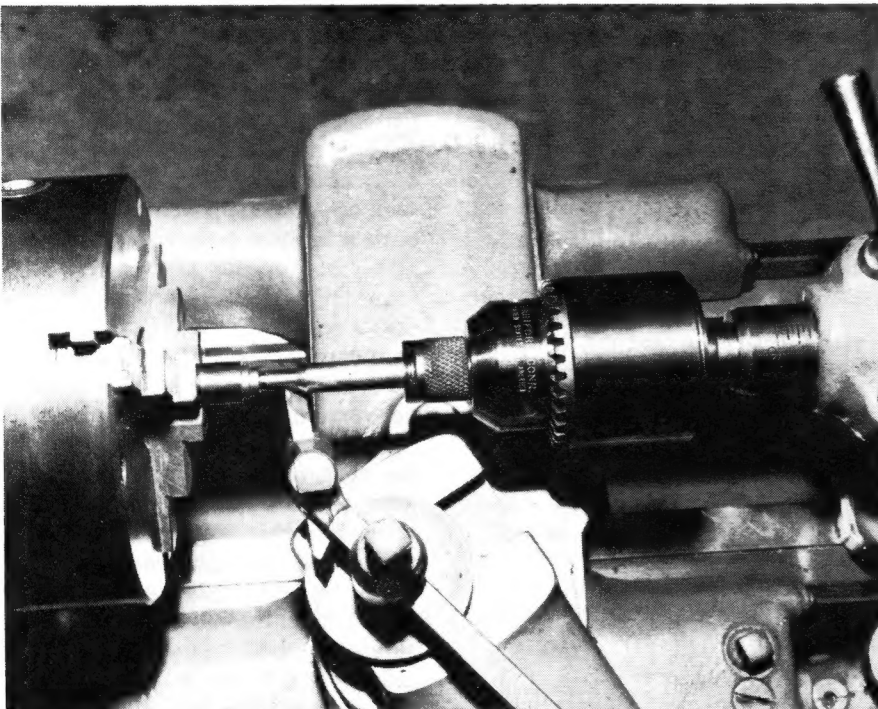
Place a shell holder in the tail stock chuck (see photo). There are

several shell holders that will be usable in a large chuck. The old Dunbar and Hollywood or Universal work fine in a small chuck. A Dunbar is shown in the photo. Clean the inside of the case mouth, if you are turning fired cases, and lubricate with graphite or molybdate. Place the base of the case in the shell holder and force the mouth over the pilot the full length of the neck. Back off the tail stock a very slight amount to prevent the base of the case from rubbing hard in the holder.

If you were thinking ahead while turning the pilot, you thought about backing the lathe tool off from the last cut to get the proper neck wall thickness. .0105" to .011" will work fine with most sizing dies for the .222. It is wise to check this out in your die before turning the whole batch of cases.

Do not size the fired cases before turning. Best concentricity will be obtained with the case directly from the chamber. Tube wall micrometers with a 3/16" anvil are an aid in determining uniformity and thickness. They should read in .0001's.

New cases will need to be chamfered on the inside. It is usually necessary to run them over the sizing plug to take out the irregularities.



Lathe turning case necks

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FOR SALE: Shilen Sleeved Heavy Varmint 222 Remington, 2 oz. trigger with 20 cases Knock Out and Seating dies. Guaranteed to shoot in the teens. \$575.00. Leupold Siebert 30X with 1/8 inch dot \$187.50. Charles Eastridge, 1320 East Elm St., Springfield MO 65802. Tel: 417-862-5297.

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Ten Years of Progress in Accuracy and Benchrest

Part I

by Bob Pease

Whenever a group of benchrest shooters sit down for an evening bull session it seems almost inevitable that the thoughts will drift to nostalgic reminiscence. At just such a gathering recently the topic shifted to what contributing factors had done the most over the past ten years to reduce group sizes and thus increase accuracy significantly.

A goodly number of excellent thoughts evolved and then it was decided to make a list of the ten most important contributing factors and rank them in the order of their import. Easier said than done. A list of ten was finally established to the mutual admiration of all but far more evenings and a great deal more frothy suds would have been required to achieve a ranking that would have been mutually acceptable. Thus it is my intent to pass along to you the list of ten along with my personal ranking of how I feel about importance of each. You are certainly free to disagree,

substitute or change the ranking but in any event the thoughts do stimulate.

Perhaps the most significant thing that occurred during the decade of the 70's to help shrink groups was to remove the scope mount base from the barrel and get it mounted completely on the rifle action. There were many who had worked to this end with varying degrees of success. The Redfield 3200 scope with its non-sliding mount system and deep Posa type scope block notch was an early move in the right direction. An extension front block was made that set on the receiver ring but extended slightly out over the barrel. Not to be forgotten was the superb Hart cantilever design front skeleton sleeve that Bob Hart had developed for the Hart action which could be applied to other actions though at considerable expense and gunsmithing. It was the early foresight of men like Hart who pointed us all in the right direction I feel. Guy Wilson of Lubbock, Texas, a civil engineer and BR

shooter developed a bridgemount for the same purpose with a little greater extension out over the barrel. Ironically we must give credit [as always] to the insight of the Unlimited Class shooters for they had accomplished the same thing by mounting their heavy 2" Unertl type scopes on the sleeves and blocks of those guns long before the methods were adopted to the Varmint Classes of rifles.

The Unertl BV-20 and the Remington Benchrest scopes were efforts in the same direction with varying degrees of acceptance and resultant quality. Regardless of which chicken came before which egg, suffice it to say that many great minds were working in the same general direction; that of getting the scope off the barrel and onto the receiver of the rifle where it would have less weight, torque and bind effect on the rifle's final performance.

Very closely related to our first point was the continued improvement in optics which took place in the early '70's and had what I feel was a great resultant effect on smaller grouping. First among these are the aforementioned Redfield, Unertl and Remington efforts toward greater magnification and improved optics. Not all were successful as evidenced by the rapid withdrawal of Remington Arms from the telescope field but the wall had been broken and others were off and running through the breach. Most noticeable of these was Wally Siebert the German engineer who had migrated to the U.S. via Australia and who has become known as the wizard of the optical revolution.

When I first saw a scope that had been converted by Siebert to greater magnification and improved clarity as well as better eye relief I had trouble believing my eyes. Some of you will remember my early article in P.S. extolling the wonders of this achievement which were so unbelievable the new and uninformed editor of that day printed reservations regarding my claims so violent that I never again wrote for P.S. until his recent demise. Regardless, it was not long before Wally was up to his ears in scope conversions and the Light Varmint and Sporter records started to fall in direct proportion to the number of scopes he was able to convert for the more knowledgeable benchrest shooters. His first efforts were to convert the Lyman 10AA scope to a 24X and the Leupold 12X to either a 24X or 30X, the latter considered beyond the useful range of magnification at that time.

It didn't take long for the breakthrough to become a victory as Lyman

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followed first with their AA 20 LWBR scope and Leupold after prevailing on Siebert to spend his vacation at their drawing boards, hatched the Leupold 24X scope as we know it today. Those first scopes were released in the early spring of 1973 and were the prime topic of discussion at Super Shoot I held in Tulsa, OK with some 250 plus benchrest shooters in attendance. From that gathering of clan and industry reps the word spread like wildfire and Leupold and Lyman as well as Siebert were off and running. It hasn't stopped yet. Wally took the Lyman 20LWBR scopes to 25X and 30X, again with improved eye relief and clarity. This time the dis-believers listened and looked and they too became caught up in the optical revolution.

Lyman came through with their 25LWBR though the LW designation for light weight no longer really applied and Siebert promptly boosted them to 30X, 32X, 36X and finally 40X the latter again felt to be beyond the point of improved results. No sooner were those words uttered than two new World Records were fired using such a scope and the non-believers were converted again. Meanwhile the Leupold Company has just announced their 36X scope, another optical achievement par excellence. From my first allotment of these, one went to Wally for conversion to 45X again felt to be far beyond the realm of usefulness; but who can say for sure.

Just as these two factors which I've described had such an important effect on the shrinking of group sizes and increased accuracy in the past ten years, so too did the other eight points that evolved from that obscure bull session of benchresters. To avoid too much concern as to the other eight factors contributing to improved accuracy and smaller records during the past decade we'll list all ten below for your perusal and take up where we left off at a later date in P.S.

1. Scope mounting removed from barrel.
2. Improved optics.
3. Improved bedding techniques.
4. Fiberglass and inert stock materials.
5. Trigger quality and design.
6. Bullet design, quality and availability.
7. Cartridge designs and balanced case capacity.
8. Barrel quality.
9. Dual organizations and competitive-ness.
10. Increased number of clubs, club matches and Hunter Class introduction of new shooters.

IBS Registered Shoot Report

VIRGINIA STATE CHAMPIONSHIP Light and Heavy Varmint 100 and 200 yards April 25 and 26, 1981

The Stonewall Rifle and the Pistol Club hosted the Virginia State Championships for Light and Heavy Varmint on April 25 and 26, 1981, at Buckhorn Range. All 100 yard shooting was done on Saturday with Heavy Varmint rifles in the morning and Light Varmint in the afternoon. As soon as the last shot was fired, the range detail went to work moving the targets down to the 200 yard position. That night Daylight Savings Time moved in on us causing an hour earlier start on Sunday, but also assuring an extra hour of good shooting light for Sunday afternoon. At 200 yards we again had Heavy Varmint in the morning and Light Varmint after lunch.

The ladies of the Stonewall Club did a marvelous job keeping the shooters happy with hot sandwiches, coffee and homemade pies. The weatherman cooperated in that it didn't pour down rain, but it was a chilly 30° Saturday morning and the wind seemed to be blowing from all directions at once. Sunday was a bit warmer, but by no means a heat wave. Still the mirage at 200 yards caused lots of eye strain.

When the smoke cleared, the top shooter in the two gun Aggregate was Nathan Boop with an average of 0.3996. Alan Euber was right behind him with a 0.4017, followed by John Brown 0.4145, Wendell Dean 0.4309, and Louis Church 0.4460.

The Heavy Varmint Aggregate was won by Jeanne Lynn with a 0.3176. (Some ladies shoot as well as they cook and look!) Alan Euber was next with 0.3577. Then came Nathan Boop with 0.3941, Louis Church with 0.3960 and Harland Huffer with 0.4066.

John Brown, Jr. had a 0.3883 to take the light Varmint Aggregate, followed by Nathan Boop's 0.4051. Smiley Hensley was a hair behind with 0.4058, then came Wendell Dean with 0.4308 and Alan Euber with 0.4457.

P.S. Editor will buy drinks and dinner for person who gets P.S. largest number of subscribers by Nationals.

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ENGLISHTOWN BENCHREST SHOOTERS ASSOC.

May 2, 1981

N.Y. STATE CHAMPIONSHIP

HEAVY BENCH TEN SHOT

1. Howie Levy 4012
2. Don Murray 4024
3. Tony Hidalgo 4118
4. George Ziegler 4236
5. Woody Cahall 4480

SMALL GROUP

Tony Hidalgo .242

HEAVY VARMINT

1. Gene Nigro 2822
2. Howie Levy 3048
3. Dave Allen Jr. 3242
4. Jim Novak 3300
5. Glenn Newick 3378

SMALL GROUP

Howie Levy .145

TWO GUN AGGREGATE

1. Howie Levy 3530
2. Gene Nigro 3738
3. Tony Hidalgo 3952
4. George Ziegler 3985
5. Bob McIntire 3993

The east winds coming in off the ocean got progressively stronger and cooler as the day wore on. It finally culminated in .22 caliber hail stones in the afternoon in the middle of heavy varmint. The match had to be held up for about a half hour because of the danger of holes being punched in the moving backer system. There were 18 shooters in heavy bench and 26 in heavy varmint which wasn't too bad considering the threatening weather. They came from 6 states — N.J., Penn., N.Y., Conn., Del., and Maryland. Howie Levy won the heavy bench class with .4012, Don Murray was very close in second with .4024, and Tony Hidalgo was third with .4118. Tony Hidalgo had small group with .242. In heavy Varmint, Gene Nigro was the winner with .2822, Howie Levy was second with .3048, and Dave Allen Jr. was third with .3242. Heavy varmint small group was won by Howie Levy — .145. Howie also won the two-gun aggregate. Gene Nigro was second with .3738 and Tony Hidalgo was third with .3952.

Geza Nagy (Corresponding Sec.)

Last call on Benchrest School '81 — Sign up now. See ad on back page for address.

"To Everything There Is a Season . . . Turn, Turn, Turn" . . .

(The Old Testament)

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Dear Doc,

Just a note to let you know I think **P.S.** is a neat shooting magazine. Hopefully, the shooters can retain their issues and use them as a handy reference for immediate and future use. **P.S.** can and should be an outstanding avenue for shooters to share and exchange ideas and experiences.

Some may not wish to share their ideas for fear of losing some competitive edge. This is not true; all the ideas, top notch equipment, and components in the world are not going to correct any trouble in the linkage between the trigger and the shooting stool.

I would like to share my findings over the past 26 years on the controversial subject of bullet spinning. "To Spin or Not to Spin" probably belongs in the same category as religion and politics. After you thoroughly discuss it, you are no further ahead one way or the other than when you started.

However, lets turn back the pages of time to 1935. At that time, Mr. L. E. Wilson, one of our great accuracy pioneers, felt he might learn a thing or two regarding the accuracy of Frankford Arsenal National Match bullet 173GR 30 caliber Boat Tail bullets. These were being used in the matches at Camp Perry so he made a spinner which accurately supported the bullet by its boat-tail and near the point.

A 2-piece bearing on one end of the spinner allowed a string to be wrapped around the spindle between the bearings. Pulling the string back and forth in a sawing motion would rotate the bullet one way or the other. With the dial indicator contact point on the bullet shank, run out could be measured. He tested approximately 500 bullets, selecting ten with the most and ten with the least error. They were then carefully loaded and bench tested in a heavy-barreled "Bull Gun" at 200 yards. To his great surprise, the "bad" bullets grouped considerably better than the good ones. Then and there he said he gave up bullet spinning and has since turned down many requests for bullet spinners. However, he told his friends who insist on spinning their bullets to "junk" the good ones. The results, though not conclusive, proved that factors which a spinner cannot detect determined their accuracy or lack of it. Mere crookedness apparently was of little importance.

Paul Gottschall, a many time champion, experimented extensively in this area. Paul fired endless groups with bullets that spun both good and bad. Paul could not arrive at a clear-cut conclusion one way or the other, so he put his bullet spinner aside and went on winning matches.

One Sunday night, I received a telephone call from a shooter who spun some 68GR 6MM bullets he bought. His opening statement was, "Bob, I have several hundred 68GR bullets that don't spin very good." I told him, if he was not pleased with them, he should notify the maker and perhaps negotiate an exchange or a refund. He said, "No way", they shoot real good. "I shot a 100 yard practice average of .2693 with them".

"I've never shot that well before." I asked if at anytime while he was shooting, did the thought of how badly the bullets spun creep into his mind? He said, "Yes — Several times during various strings. Then as the shooting progressed, he never gave the bullets a thought and devoted his undivided attention to shooting groups". I said, "I bet your first groups were the largest of the bunch." He thought awhile and said, "Yes, you are right they were larger than the others; it's funny, the gun was real clean too." I said, "I don't think it was the fault of the gun, I believe the shooter lost concentration and confidence thinking how badly the bullets spun and probably misses a few small changes in conditions".

I remember I had a batch of 63GR 6MM bullets. These were made with tender loving care, which is the only way to make competition bullets. I was curious because I had a nice new bullet spinner that I wanted to try out, and somebody said that "You should spin all your bullets before you shoot them". Well, it's a good thing I have a strong heart or I would have had to call my wife to bring me my pills and put one under my tongue.

That darn indicator needle looked like a windshield wiper blade in a rainstorm. However, I remembered L. E. Wilson's test, which saved me from going into traumatic shock. After I regained my composure, I knew I was in no condition to test these bullets on the target so I gave some of these to an experienced stool shooter friend of mine to shoot. I asked he test them during his next practice session. I asked that he do not check these bullets in any way. Just load and shoot them. Several weeks went by but I finally heard from him. He said, "I only fired three groups and then I quit and started using some others I had in my shooting box." I asked, "Did they shoot that bad?" He said, "If you call a .141, a .182, and a .197 bad, then they are lousy. Can I keep the other 230 bullets?" I said, "Be my guest." This confirmed what Wilson had uncovered in 1935 — factors a spinner cannot indicate. How well the bullets are made far outweigh their mere crookedness.

I suspect the whole thing on bullet spinning comes down to, if you really think it works for you, by all means use it. Use anything that builds confidence in your equipment and shooting ability.

Before I took a particular batch of bullets to a match, I'd spin a few through my barrel first.

Sincerely,
Bob Cauterucio

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Close Matches and New Entries Feature Start of Transcontinental Hunter Rifle League's 9th Season of Competition

by Bob Pease

Close matches were the name of the game in the May battles of the National Conference TCL Hunter Rifle season opens in May. San Juan, New Mexico beat out Holmesburg, Penna. by four points, while Waco Area Texas nudged past Entiat, Washington by nine points. In an unexpected upset Englishtown, NJ lost to the Snow Shoe Alaskan shooters by more than 20 points. Las Vegas, NV, a new entrant in '81 made a very respectable showing in their first match which was unfortunately a loss to Menard, Texas. Pocono, Penna., in their first entry logged a win over Corsicana, East Texas shooters.

While the American Conference continues to experience some growing pains they are nevertheless turning in

some quite respectable scores. They also boast the widest geographicals separation with a new entrant in '81 from Ledbury, England. The English shooters turned in a very respectable 1045-5X score in their first attempt and it was noted that all five of their qualifying shooters used the 6mm cartridges. Several new entries braved the competition with less happy results but promise increased shooter participation in the months ahead. We take our hat off to those who will try, be the effort ever so meagre, as opposed to clubs that refuse to participate at all for fear of getting beaten or embarrassed.

Standings and July schedules for both conferences follows:

AMERICAN CONFERENCE STANDINGS

NAMAKA, ALBERTA CANADA	1-0
St. Louis, MISSOURI	1-0
AURORA, ILLINOIS	1-0
ALLIANCE, NEBRASKA	1-0
TONY'S OF MICHIGAN	1-0
PRARIE DOG SO, DAKOTA	1-0
HOLMAN, WISCONSIN	0-1
MIDLAND COUNTY, MI	0-1
MIDWAY, NEBRASKA	0-1
LEDDBURY, ENGLAND	0-1
BERWIN, MARYLAND	0-1
JACKSON COUNTY, NC	0-1 [LOST BY DEFAULT]

All rankings, both conferences, by point total accumulation Details on request.

AMERICAN CONFERENCE MATCH SCHEDULE JULY

BERWIN MARYLAND	-	JACKSON COUNTY NC
LEDDBURY, ENGLAND	-	MIDWAY, NEBRASKA
PRARIE DOG, SD	-	MIDLAND COUNTY MI
AURORA, ILLINOIS	-	HOLMAN, WISCONSIN
NAMAKA, ALB. CANADA	-	ALLIANCE, NEBRASKA
St. Louis, MISSOURI	-	TONY'S OF MICHIGAN

NATIONAL CONFERENCE MATCH SCHEDULE FOR JULY

LOUISIANA CAJUNS	-	POCONO, PENNSYLVANIA
ENGISHTOWN, NJ	-	CEN TEX NORTH
SNOWSHOE ALASKA	-	S. W. LOUISIANA
CORSICANA, EAST TEX.	-	DUNHAM'S BAY, NY
YELLOWSTONE MONTANA	-	ENTIAT, WASHINGTON
WACO AREA TEXAS	-	WESTERN MONTANA
HOLMESBURG, PA	-	LA CROSSE, WISCONSIN
COLORADO BENCHREST	-	MENARD, TEXAS
SAN JUAN, N. MEX.	-	LAS VEGAS, NEVADA
TRI-COUNTY ILLINOIS	-	PABST-MILWAUKEE
MENOMINEE FALLS, WI	-	TIFFIN, OHIO
CHIPPEWA, OHIO	-	SAN ANGELO, TEXAS

NATIONAL CONFERENCE STANDINGS

EASTERN DIVISION

Pocono PA	1-0
Dunhams Bay	1-0
Chippewa OH	1-0
Englishtwn NJ	0-1
Holmesbg PA	0-1
Tiffin OH	0-1

CENTRAL DIVISION

La. Cajuns	1-0
So. West LA.	1-0
Colo. BR	1-0
Cor-E-Tex	0-1
Menominee Fla.	0-1
Pabst-Milw.	0-1

NORTHERN DIVISION

Snow Shoe AK	1-0
T.C. Ill.	1-0
tie West. Mont.	0-1
tie Entiat, WA	0-1
Yellowstone MT	0-1
LaCrosse WI	0-1

SOUTHWESTERN DIV.

San Juan NM	1-0
Waco Area TX	1-0
Menard Tex.	1-0
San Angelo Tx	1-0
CenTexNo	0-1
Las Vegas NV	0-1



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Technical Column

Mr. M.H. Walker
R.D. 1, Warren Road
Mohawk, New York 13407



Dear Dave,

You don't know me, and I don't know you, except that your name stirs my memory back to the early seventies and your articles in P.S. There are several things I wish to comment on.

First of all, P.S. had, in my opinion, deteriorated over the past four or five years to the point where I had almost considered it "junk mail" and was, on occasion, tempted to pitch it in the trash can without even turning a page. However, your recent writings in P.S. have stirred my enthusiasm to the point which prompted me to write to you.

Mr. Brennan, my hat is off to you. I don't agree with everything you say, but I certainly commend you for the time and effort you are giving, and for the frankness you display in getting the message across - and you do!!

There being two bench rest organizations in this country, as far as I am concerned, is damn foolishness. It has produced hardship on both organizations, and worse, has caused animosity in some cases, among some of the finest people on earth — benchrest shooters. This should be brought to a screeching halt as soon as possible and by any means reasonably prudent. The result being far more important than the means!

As for P.S., there has been an earth shattering improvement in the last few months. Thanks to you for your recent

contributions. Thanks also to Doc and folks such as Rick Hornbeck, Seely Masker, Mike Walker and others. These folks are the faithful few.

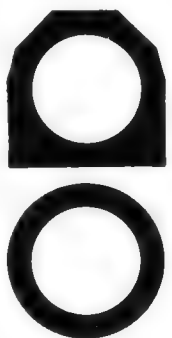
I shot a little benchrest a few years ago and often remember the fine people associated with the sport and sincerely cherish these memories. Even though I no longer compete, I do maintain a couple top drawer rifles capable of holding their own just in case the spark rekindles.

You mention turning of case necks in your article in the May issue. Would like to have you expound on this subject. Seems that many shooters still consider this as somewhat of a mystery. Some folks who do turn seem to have a hellacious experience — case necks look like they have been through a corn sheller. Modesty is virtue, but please allow me to toot my whistle just a trifle because I feel fortunate to have been one of the pioneers in case neck turning, commencing this procedure in about 1969, as I recall, on the respected advice and guidance of my good friend, Art Freund. In those days, we did not have in general use, or otherwise as far as I know, any of the fine little tools now in use for the specific purpose of turning necks. We resorted to the use of the lathe, turning a mandrel to proper size; then pushing the neck over the mandrel by use of the tail stock; then attempting to turn to some pre-determined thickness. The nitty-gritty was the **absolute** repeatability, but be done — and was. Turning the case neck to an approximate thickness, then using a neck sizer to pull the neck down slightly after firing was a relatively simple procedure compared to TRUE FITTED NECK situation.

From the outset, I used the true fitted neck and have to this day. The virtues, in my opinion, are tremendous. The TRUE FITTED NECK **never** requires resizing. Case life is many times over any method in which the case is resized. To accomplish this, one needs ex-

perience and tools capable of hair splitting accuracy and repeatability, as this procedure creates "O" clearance between the "pressure ring" at the base of the bullet and the walls in the neck of the chamber. This dimension has to be just right to be successful and to keep a fellow out of trouble. I usually tailor my necks to the particular bullets I am using at the time. A little trouble? Yes! The results? Most gratifying.

To reload, all that is required is a primer knock-out pin, primer pocket cleaner, primer seater, neck brush, and bullet seater — carry it all in your hip pocket! Using this method, I have never shot cases to destruction. Have now, 10 cases (short version .30 cal.) which to date have fired over 3400 rounds. This is 340 firings each and are still going strong even though the bullets are now seating with less pressure than I desire. The above mentioned cases are ones I used for practice in my unlimited class big bore silhouette handgun, an XP-100 rebarreled to my version of a short .308 with 35° shoulder. I call this a 300X35 — superbly accurate — shoots well under minute of angle to 200 meters when testing with Lyman 6X scope. We are not allowed to use scopes in competition (IHMSA rules). Was lucky enough to capture the 1979 Indiana State Championship AA Class, using the short .30. With same gun, took second place in AAA class last year. The short .30's really turn it on and would be a fine choice in bench rest except for one fatal factor — low velocity — will not buck wind with the good 6mm's at 3200 to 3500 FPS. Just checked a couple chronograph sheets from the Oehler 33. My 6mm BR is turning an average velocity of 3326 FPS with my (Pindell dies) 64 Gr. bullets. Compare this with the short .30 at 2311 average, with 150 Gr. Sierra spitzers, and you see what we are up against. (The XP .30 has a 14 1/2" barrel). The .30 cal. reamer was designed for the fitted neck and has a



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.330" neck dimension. This allows a case neck wall of around .011" which I feel is about ideal on a .30 cal.

This brings to mind a statement made by Greg George in the Technical Column of the May issue. George states "let's chamber all cases to a steel gauge." If Mr. George is suggesting that SAAMI specs gauges be used on benchrest rifles, then I'm afraid the accuracy we have been able to turn up would be cast back to the days of the Model T and high button shoes. Just my opinion - no offense to Mr. George — I certainly see his point, but it won't work too well on benchrest rifles.

Mr. Brennan, would like to differ with you regarding a statement you made in your article about Remington. You said something to the effect that Remington probably has been the only factory friend the bench-rest shooters ever had. You know, I am of the opinion that you are just about 180° off on that statement. Where do you think Remington would be today had the bench-rest shooters never existed??!! The free advertising that Remington has received from the benchresters over the past 15 or so years would have cost them a bundle. I have never witnessed Remington busting their butt to do any special favors for the benchresters in general. I don't know just what prompted you to make the aforementioned statement. However, if you were referring in part to Remington's round bottom action, which with enough work and money can be made to perform, then I seriously doubt Remington gave the bench-rest shooter

much thought at the period in history when the round bottom action was on the drawing board. You may well have had something entirely different in mind when you made the statement; if so, I apologize. My apologies also for the unintended rambling of this letter.

Again, Mr. Brennan, thanks for a very fine job. Your efforts, I'm sure, will be appreciated by many. Best Regards.

Selby Wright

Dear Selby:

Dave asked me if I would do the dissertation on fitted necks and has turned your letter over to me. Nice to hear from you again, even if its sort of round about. So now you are shooting handgun silhouette. That game is growing faster than any. Jim Stekl has also deserted to handgun silhouette. Anyway that is better than I'm doing. I have essentially deserted all shooting. My hearing is failing too fast.

Many shooters are using fitted necks these days. You and Red Cornelison were some of the first. As you already know the thing that makes it work is holding the neck clearance so that the elastic limit of the brass case neck is not exceeded on firing. This clearance for a .22 cal. is somewhere between .001" and .0015" on the diameter with a .0105" case neck wall. It is slightly more for the larger calibers with the same neck thickness.

This clearance could be calculated if one knew the elastic limit of the brass, then applied it to the expansion of the case neck on firing. The problem is that the elastic limit varies considerably, so

we hold the clearance small enough to take care of the weakest case.

Turning case necks on the lathe by your method is still the best and shortest way to get a good job. Using the hand tools is quite a chore.

Incidentally the statement credited to Greg George about SAAMI chambers was actually made by George Fullmer. I agree with you that SAAMI chambers are designed for complete interchangeability and are not really adequate for benchrest etc.

I think Dave's statement about Remington is correct. Since I was one of those instrumental in getting a benchrest organization started back in 1949 and 1950 and was also instrumental in getting Remington started in center fire target rifles about 1960. I am probably a little prejudiced.

It's agreed that Remington gets a lot of advertising out of benchrest, but it isn't free. I worked at the Ilion Remington Plant for 33 years and in all that time absolutely no money was earned on target rifles or for that matter match ammunition or components. It's a matter of producing these products to satisfy the enthusiasts in order to get the "free" advertising.

M. H. Walker

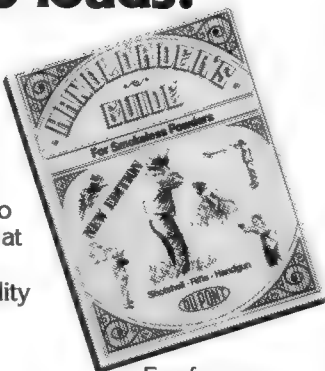
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Wind Drift

BY L. E. (Sam) Wilson

Dear Editor:

I believe PRECISION SHOOTING readers will be interested in an experiment completed some time ago in which I compared the wind drift of two well-known bullets at 200 yards. These were the .22 caliber, 53-grain Sierra Bench-Rest and the .30 caliber Sierra 168-grain

International. These two commercially available bullets rank high in accuracy and I have had and seen impressive results from both.

A portable, folding bench was constructed that could be set up on short notice and with the bracing shown in the photo was really rigid. The top is made

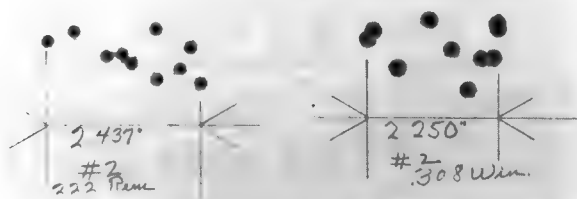
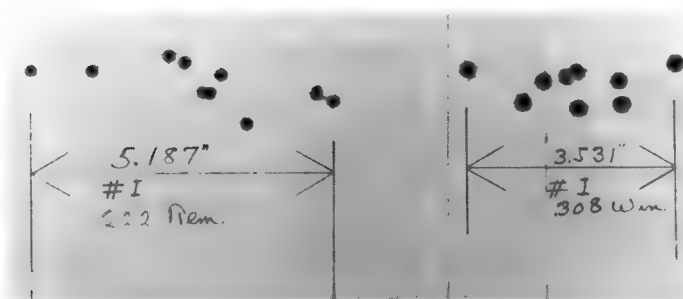
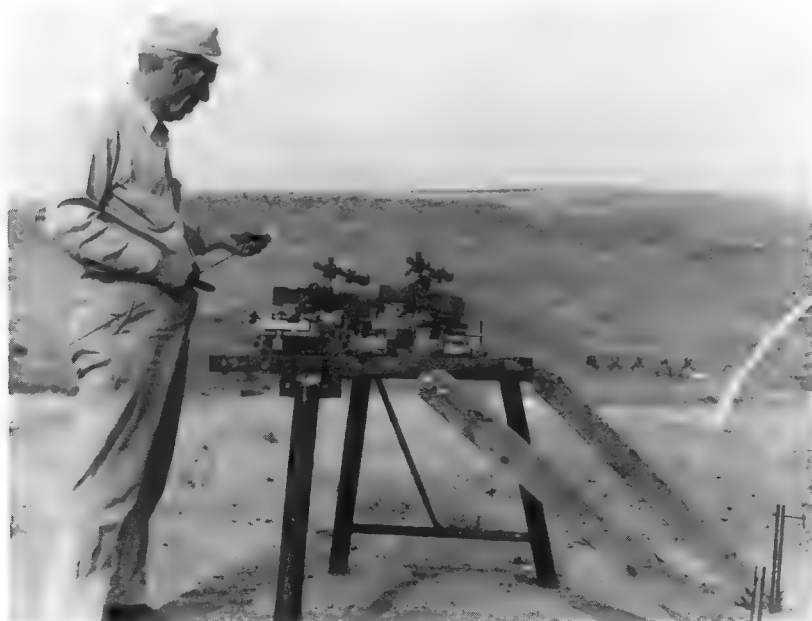
of 2" plank, the legs of 2" pipe, all bolted to a heavy steel angle at each end. The two braces are bolted to the bench and the ends are clamped to 1" round steel pins driven into the ground. The bench is transported in a pickup and setting it up is a one-man operation.

A location about 12 miles from Cashmere was used. The wind has a good sweep across the area, coming from the Cascade Mountains to the West and the spot proved quite good for the test. No attempt was made to allow for wind from shot to shot. The rifles were aligned on the target and the wind invited to do it damnedest.

Two good BR rifles were used, my .223 Big Bertha and another good rifle in .308 Winchester caliber. Mechanical rests supported both rifles and being so close together could be fired with little time lapse between shots, subjecting both bullets to practically the same wind pressure. Probably about two seconds elapsed between shots, bang-boom.

The targets pretty well disclose the advantage of the .30 boat tail bullet over the .22 under windy conditions but whoever thinks the .30 is little affected by wind has another think a-comin'.

I have long noticed that vertical dispersion is greater when the wind is blowing than otherwise. This is true on most ranges. When the range is level the wind seems to be "rolling" due to interference by brush, uneven ground or various objects. When there is a low area between firing point and target the up and down affect seems to be less. I once shot a group, ten shots, under an inch at 200 with a .30 in a strong wind by



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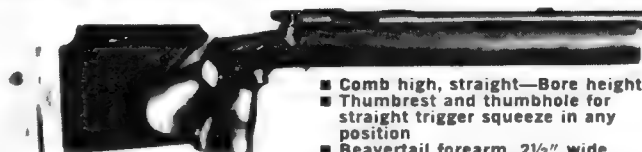
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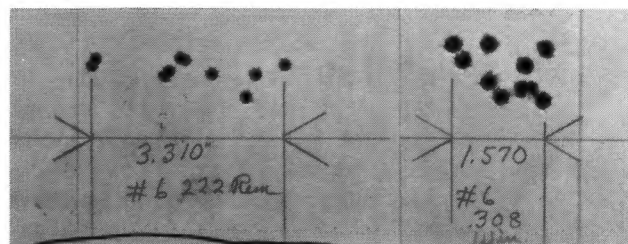
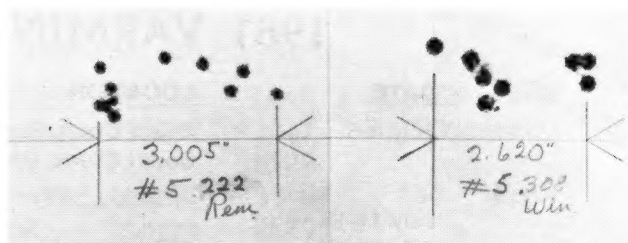
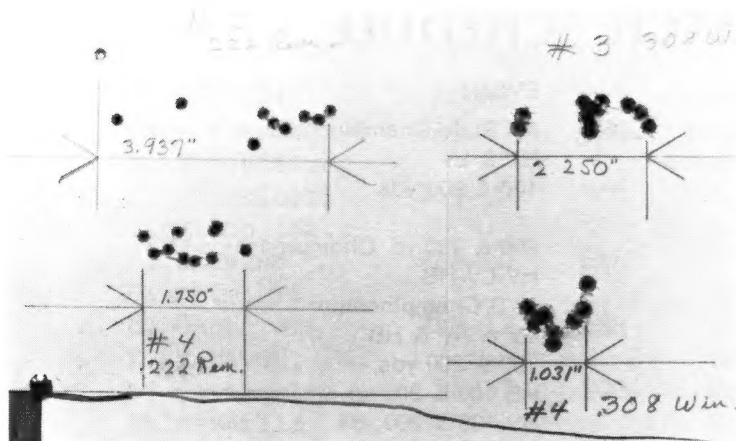
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aiming half way from target center to the right edge of the target, the group printing half way from center to the left edge of the target.

I recall competing at Camp Perry many years ago when one of our team members shot a 97 x 100 at 1,000 yards in a 3-1/2 point wind. With the '03 rifle a point of wind was 4" at 100 yards or 40 at

1,000. So this man was aiming nearly 12 feet to one side of the bull, and hitting it 17 out of twenty shots. Camp Perry, Ohio, is a very level area and the wind

often holds quite steady. Not so in our mountainous area where the wind doesn't get such an even swipe across the targets.

RESULTS OF I.B.S. REGISTERED MATCH AT DUNHAM'S BAY APRIL 26, 1981, H.V. 100 METERS

1. Seely Masker	.348	.460	.365	.250	.213	.339	.3254
2. Brian Hollister	.390	.362	.277	.403	.368	.232	.3284
3. Joe Vinci	.779	.520	.436	.330	.326	.297	.3818
4. Jim Meyer	.837	.482	.520	.478	.234	.492	.4412
5. Lee Euber	.567	.402	.697	.458	.398	.361	.4632

Seely Masker kept burning in the good scores to nail down his first Club Championship in the ninth annual matches at Dunham's Bay range. His final total score averaged .3035, followed by Allie Euber at .3258, Dick Maretzo .3345, Gordy Euber .3446, Eric Euber .3473, Lee Euber .3512, Ira Farnsworth .3554, Lou

Church .3700, Ken Viara .4000, and Joe Vinci .4023.

Congratulations to Seely for coming out on top in one of the roughest years we have ever had. There was everything except freezing rain this year, from about ten below zero to in the eighties on one occasion. We never lacked for wind, and this week was no exception.

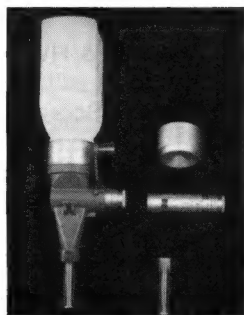
Want to remind all of you that May 17th we will hand out the trophies for the Winter League shoots. Also, we will have free dinner for all shooters, with Kentucky Fried Chicken the feature of the menu. There will be a nominal charge of three dollars for all non-shooters, and we hope to have enough to go around.

We will also fire our first match of the T.C.L. season that day, so bring out the Hunter rifles. Will have matches on June 21st, July 12th and August 16th in T.C.L., as well as having H.V. unregistered matches at the same time. Will keep you posted on these.

Also want to get a word in about the Benchrest School at Johnstown in August. Have started receiving applications for it, and hope to have a healthy start on these by the time our next

newsletter goes out. We still would appreciate any help that we can line up for coaching during these three days. Have a good start, but can still use quite a few more. Don't hesitate to let me know if you would like to help out.

Best wishes,
Charlie



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1981 VARMINT MATCH SCHEDULE

DATE	LOCATION	EVENT
July 4-5	South Creek Rod & Gun Club South Creek, PA	PA State Championships HV & LV 100 & 200 yds.
July 11-12 July 18-19	IBS - Stittsville, Ontario	200 & 300 yd. Championships (IBS) HV-LV-HB
July 25-26	Camillus Sportsmen's Club	NYS Championship LV & HV & HB 100 & 200 yds.
Aug. 1-2	Council Cup	HB 100 & 200 yd. Championship HV 100 & 200 yds.
Aug. 8-9	Mainville Sportsmen's Club	HB, SP - HV 100 & 200 yd.
Aug. 8-9	Fairfax Rod & Gun Club	Va. State Championships HB/HV/LV, 3 gun, 100 meters
Aug. 15-16 Aug. 17-18-19	Pine Tree Rifle Club	Benchrest School
Aug. 20-21 Aug. 20-23	Johnstown (Pine Tree Rifle Club)	IBS Championships LV-SP-HV 100 & 200 yds.
Aug. 29-30 Sept. 5-6	Painted Post Field & Stream	Two two gun aggregates: LV-HV agg., HV-HB agg.
Sept. 12-13	Englishtown Benchrest Shooters Association	N.J. State Championships HV (12th) 9 a.m., LV (13th) 9 a.m. 100 yds. only
Sept. 19-20 Sept. 26	VA Chapter No. 1 IWLA Richmond, VA	LV-HV-HB 100 yds.
Oct. 3-4 Oct. 10-11		

1981 HUNTER MATCH SCHEDULE

DATE	LOCATION	EVENT
July 12	Mainville Sportsmen's Club	200 yd. Hunter & HV/LV for Score
July 12	Capitol City R&P Club	State of Maine 100 yd. Hunter & HV for Score Championships
July 18 July 19	Factoryville Sportsmen's Club IWLA - York, PA	100 yd. Hunter & Varmint for Score York County Hunter Championship 100 yd. Hunter
July 26	Sulphyr Springs Rifle & Revolver Club	100 yd. Hunter & HV/LV for Score
Aug. 9	Capital City R&P Club	State of Maine 200 yd. Hunter & HV for Score Championships
Aug. 15 Aug. 16 Aug. 29	Factoryville Sportsmen's Club IWLA - York, PA Englishtown Benchrest Shooters Association	100 yd. Hunter & Varmint for Score 200 yd. Hunter NJ State Championships Hunter & HV for Score 100 yds. only 9 a.m.
Sept. 13 Sept. 19-20	Mainville Sportsmen's Club IWLA - York, PA	100 yd. Hunter & HV/LV for Score IBS Hunter Championship 100 & 200 yd. Hunter
Sept. 27	Sulphyr Springs Rifle & Revolver Club	100 yd. Hunter & HV for Score
Oct. 3-4	Mainville Sportsmen's Club	100 & 200 yd. PA State Championship Hunter - HV/LV for Score
Oct. 11	Sulphyr Springs Rifle & Revolver Club	100 yd. Hunter & HV for Score
Oct. 18 Oct. 25 Nov. 1	IWLA - York, PA Mainville Sportsmen's Club Mainville Sportsmen's Club	100 yd. Hunter 100 yd. Hunter & HV/LV for Score 100 yd. Hunter & HV/LV for Score

IBS REGISTERED HUNTER RIFLE MATCH
IZAAK WALTON LEAGUE, York, Pa. Apr. 26, 1981

SHOOTER	SCORE	CAL.	ACTION	SCOPE	BULLET	LOAD	PRIMER	CASE
1. C. Loeb sack * E. Stroudsburg	249-9	6MM	700	Lyman	65 Gr	28.1	F. 205	sak0
2. E. Starzinski * Kingston, Pa.	249-9	308	Atksn	6X	Fifer	H322		
3. P. Olewine Dauphin, Pa.	248-14	6X47	Rem.	Weaver	168 Gr	39 Gr	Fed	Fed.
4. B. Gebhardt Lock Haven, Pa.	248-12	6BR	Hart	6X	Sierra	H4895		
5. V. Pastorella Milnesville, Pa.	247-9	308	Hart	3 1/2 X10	Custom	748	F. 205	Rem.
			Rem.	Leupold	70 Gr	28.5	F. 205M	Rem.
			Hart	3 1/2 X10	Olewine	H322		
			Rem	Weaver	168 Gr	41 Gr	Fed.	Fed.
			Hart	6X	Sierra	H4895		

A Very nice day for shooting. Temperature in the low 70's and a heavy breeze most of the time. The warm sun was favoring us also. Chuck Loeb sack

kept the lead all the way with Ed Starzinski sticking right with him. It ended in a tie with Chuck winning out for 1st. Congratulations and nice shoot-

ing. Thanks for coming and hope to see you all next month.

R. Linn, Secretary

IBS REGISTERED HUNTER RIFLE MATCH
IZAAK WALTON LEAGUE, York, Pa. May 17, 1981

SHOOTER	SCORE	CAL.	RIFLE	SCOPE	BULLET	LOAD	PRIMER	CASE
1. P. Olewine * Dauphin, Pa.	250-10	6X47	700	Leupold	Custom	29 Gr	Fed 205	Rem.
2. L. Ressler * York, Pa.	248-14	308	Hart	3 1/2 X10	70 Gr	748		
3. V. Pastorella Milnesville, Pa.	248-14	308	700	Weaver	168 Gr	40 Gr	Fed.	Fed.
4. W. Wagman Dallastown, Pa.	248-13	308	Hart	6X	Sierra	748		
5. D. Person Schöta, Pa.	248-12	308	Rem.	Weaver	168 Gr	41 Gr	Fed.	Fed.
			Hart	6X	C & V	H4895		
			Rem.	Weaver	168 Gr	40 Gr	Fed.	Fed.
			Hart	T6	Sierra	H4895		
			Rem.	Weaver	---	40.4 Gr	Fed.	Fed.
			Hart	T6	VP	H4895		

We had a beautiful sunny day, a little on the cool side, some mirage and not too much wind. Paul Olewine was on

again and could not be stopped. Nice shooting Paul. Lou Ressler was right behind with 248-14 and a string of 248's

right behind nosed out by X's. Thanks to all who attended and hope to see you next month.

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Winter Benchrest

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Year Agg.

AGGREGATE PLACE

1. Mel Estep.....	3334
2. H. Strickland.....	3355
3. Steve Borsh.....	3382
4. Bob Lammana	3520
5. Art Blessinger.....	3795

The Smallest Group of the year was shot by Dave Bendick .098. Of 76 shooters that attended our winter matches 24 completed 5 matches.

I want to thank every shooter for his support. Hoping to see you all next winter.

Keep all your Groups small.

Sincerely,

Hank Gonnella

INTERNATIONAL BENCHREST SHOOTERS
APPLICATION

Name

Address

City State Zip

IBS MEMBERSHIP

- () IBS membership and PS for one year — \$15.00
- () Associate member (no magazine) other members of same house hold — \$4.00
- () Junior member (no magazine) under age 16 — \$2.00
- () Club Affiliation and PS for one year — \$15.00
- () New () Renewal

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For membership make checks payable to IBS.

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- () Precision Shooting, one year — \$9.00
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- () Precision Shooting, outside U.S. & Canada — \$12.00 each year
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- () New () Renewal

MAIL PRECISION SHOOTING MAGAZINE SUBSCRIPTION TO:

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 133 State St., Augusta, Maine 04330

For subscription ONLY make checks payable to Precision Shooting.

"BENCHREST '81"

School for Shooters

LEARN BENCHREST THE PRECISION SHOOTING WAY!

"Benchrest '81" can put it all together for you like it did for "Benchrest '79 and '80".

Precision Shooting announces "Benchrest '81", a school for shooters.

The 1981 program will offer the shooter a solid background in the areas of benchrest shooting and related activities. It is open to shooters of any experience level. We can all learn together.

The dates will be August 17, 18 and 19. This year this is the three days immediately preceeding the IBS National and International Championships. And both events will be held at the "Pine Tree" Club, where it all started, at Johnstown, N.Y. This father of benchrest ranges is challenging. It is a fine learning ground for the shooter.

"Benchrest '81" will feature a staff of proven experts who will take the student through all phases of the benchrest sport from basic equipment and techniques up to mirage and the fine points of gunsmithing and riflery. The many facets of this interesting activity will be examined in informal workshops and clinics and shooting sessions. Student activity will be the base for all events.

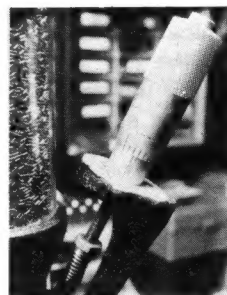
The cost of the program will be \$150.00 per shooter. This will include the 3 days of instruction, 3 midday meals and coffee breaks.

To assure a place on the roll for this school, forward a \$50.00 deposit to "Dean" Charles Fountaine, R.D. No. 2, Fort Ann, N.Y. 12827. The balance will be due by July 15, 1981. Refunds for cancellation will be granted until July 31, 1981.

The school will be limited to the first 40 registrations. We will keep a stand by list in the event we have cancellations. Act early to assure your participation.

Camping will be available at the range. Electrical hook ups will cost \$1.00 per day. Only the noon meal will be provided on the range. Individuals will be responsible for morning and evening meals. Motel and Hotel facilities are available in the area.

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Please let us know, well in advance, what your new address will be. Send your old address too — even better, enclose the address label from a recent issue. The Post Office will not forward your copies unless you pay extra postage, but we will see that your "Precision Shooting" reaches you, without interruption, if you notify us six weeks in advance of your move. Write to Precision Shooting, 133 State St., Augusta, Maine 04330.

When giving your address please add your Zip Code number.



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